

Enclosure of March 10, 2005

Our ref.: WO 38173

PCT-Application No.: PCT/EP03/08936

Applicant: HONEYWELL INTERNATIONAL INC. et al.

New claims 1-8

- 10 1. A variable nozzle device comprising:
an annular nozzle passage (5) formed by a gap between
two opposing wall members (1, 3); and
at least one vane (7) extending in said nozzle passage
(5) and being rotatably supported by a shaft (9) attached
15 to said vane (7),
characterized in that
said vane (7) is formed by a sheet metal contour,
wherein at least a portion of said shaft (9) protrudes
beyond an edge of said sheet metal contour by a
20 predetermined amount so as to form a stepped portion (21)
contactable to one of said opposing wall members (1; 3)
thereby separating said sheet metal contour from said one
of said opposing wall members (1; 3).
- 25 2. A variable nozzle device according to claim 1, wherein
said vane (7) is formed by wrapping a strip of said sheet
metal so as to form said contour as a loop.
- 30 3. A variable nozzle device according to claim 1 or 2,
wherein a downstream tip (25) of said vane (7) is formed by
joining two ends of said strip of said sheet metal.
- 35 4. A variable nozzle device according to claim 3, wherein
said two ends of said strip of said sheet metal are joined
by spot welding.

5. A variable nozzle device according to one of claims 1-4, wherein said shaft (9) extends into said sheet metal contour being attached at least to an outer peripheral portion of said shaft (9).

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6. A variable nozzle device according to claim 5, wherein said sheet metal contour is attached to said shaft (9) by spot welding at two peripheral portions of said shaft (9), which are diametrically opposed to each other.

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7. An exhaust gas turbine comprising a variable nozzle device according to one of claims 1 to 6 and a turbine wheel which is drivable by exhaust gas passed through the annular nozzle passage of said variable nozzle device.

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8. Turbocharger comprising an exhaust gas turbine according to claim 7.